

**CITY OF MOUNTAIN VIEW  
CLASS SPECIFICATION**

<b>Position Title:</b> Utilities Electrician	<b>Job Family:</b> 6
<b>General Classification:</b> Front-Line	<b>Job Grade:</b> 26

**Definition:** The Utility Systems Electrician performs specialized, skilled electrical maintenance and construction work on the City's water, wastewater and landfill gas collection infrastructure.

**Distinguishing Characteristics:** Receives general supervision from the Utilities Systems Supervisor. May receive technical supervision from Utilities Section Supervisors and the Senior Postclosure Environmental Systems Technicians. May exercise technical supervision over assigned maintenance personnel.

**Examples of Duties:** Duties may include, but are not limited to, the following:

1. Inspect electronic and computerized control systems, SCADA systems and electrical equipment to verify proper operations and identify maintenance and repair requirements.
2. Test and calibrate pressure transducers, flow meters, flow switches and other electrical equipment pertaining to water, wastewater and landfill gas collection system operations.
3. Perform electrical testing using voltmeters, amp meters, ohmmeters and other calibration and testing equipment and apparatus.
4. Perform a wide variety of electrical maintenance and repairs on pumps, generators, motors, variable frequency drives and control panels using specialized electrical testing and calibration equipment, and hand and power tools.
5. Provide technical guidance and direction to staff assigned to assist with electrical maintenance and repair projects; review work and control quality of work.
6. Trace and locate component failures and perform related troubleshooting tasks.
7. Install conduits, wire, pullboxes, switchboards and switches required for additions, extensions or alterations to electrical systems.
8. Maintain an inventory of replacement parts, batteries, lights and fuses used for routine maintenance.
9. Assure testing equipment is calibrated to manufacturer's specifications.

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10. Assist in planning and implementing an electrical system preventative maintenance program.
11. Develop specifications and oversee work of contractors performing major electrical system repairs or maintenance projects.
12. Respond to after-hours emergencies within the Utilities Section and Landfill Postclosure operations.
13. Maintain records related to daily activities.
14. Maintain tools and equipment in working order.
15. Follow safe work practices.
16. Perform other duties as assigned.

**Minimum Qualifications:**

Knowledge of: Principles of electronics, electricity, SCADA system communications, occupational hazards and safety practices for electrical work; techniques and procedures for maintaining and performing repairs on electrical control systems, mechanical control systems, hydraulic control valves, pumps and variable frequency drives; electrical codes used by the State of California; and principles and practices of safety related to areas of assignment.

Ability to: Read electrical schematics; operate and maintain SCADA and related equipment; calibrate, troubleshoot, repair, overhaul and maintain wiring, switch gear, lighting fixtures, pumps, generators, motors, variable frequency drives, control apparatus, internal communication equipment, solid-state controls and specialized electrical and mechanical equipment; occasionally perform duties for periods longer than a normal eight-hour workday; wear respirator or breathing apparatus; ensure the proper use and care of tools; learn codes, policies, regulations and procedures related to the operation of a SCADA system for water and wastewater; communicate clearly and concisely, both orally and in writing; and establish and maintain effective working relationships with those contacted in the course of work.

**Experience and Training Guidelines:** Combination of relevant experience, education and training that will satisfy the required minimum qualifications, knowledge and abilities.

Recommended: Three years experience in the maintenance, operation and repair of pumps, motors, electrical wiring and specialized electrical and mechanical equipment. Education equivalent to the completion of the 12th grade.

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**Required Licenses or Certificates:**

- Valid Electrician Certification issued by the State of California.
- Valid California Class C driver's license.
- Possession of the Grade II Plant Maintenance Electrical/Instrumentation Technology Certificate issued by the California Water Environment Association within two years of appointment.

**Working Conditions:** Preemployment and periodic respiratory examinations may be required for this classification. Position may require working at heights up to 20' and in confined spaces.

Established March 9, 2010

Revised

CLASS SPECS

CS040-F^